

FIG. 1

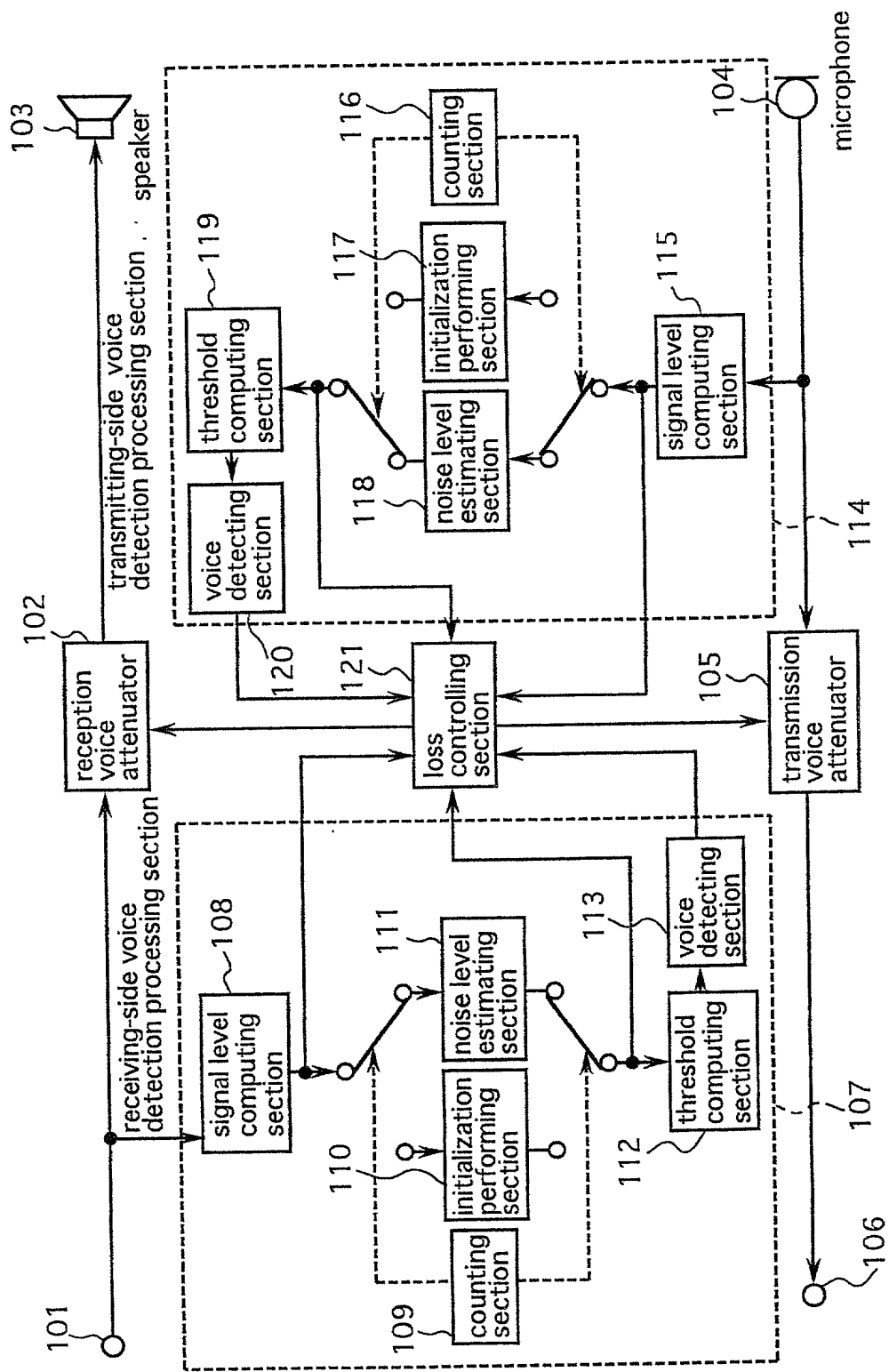
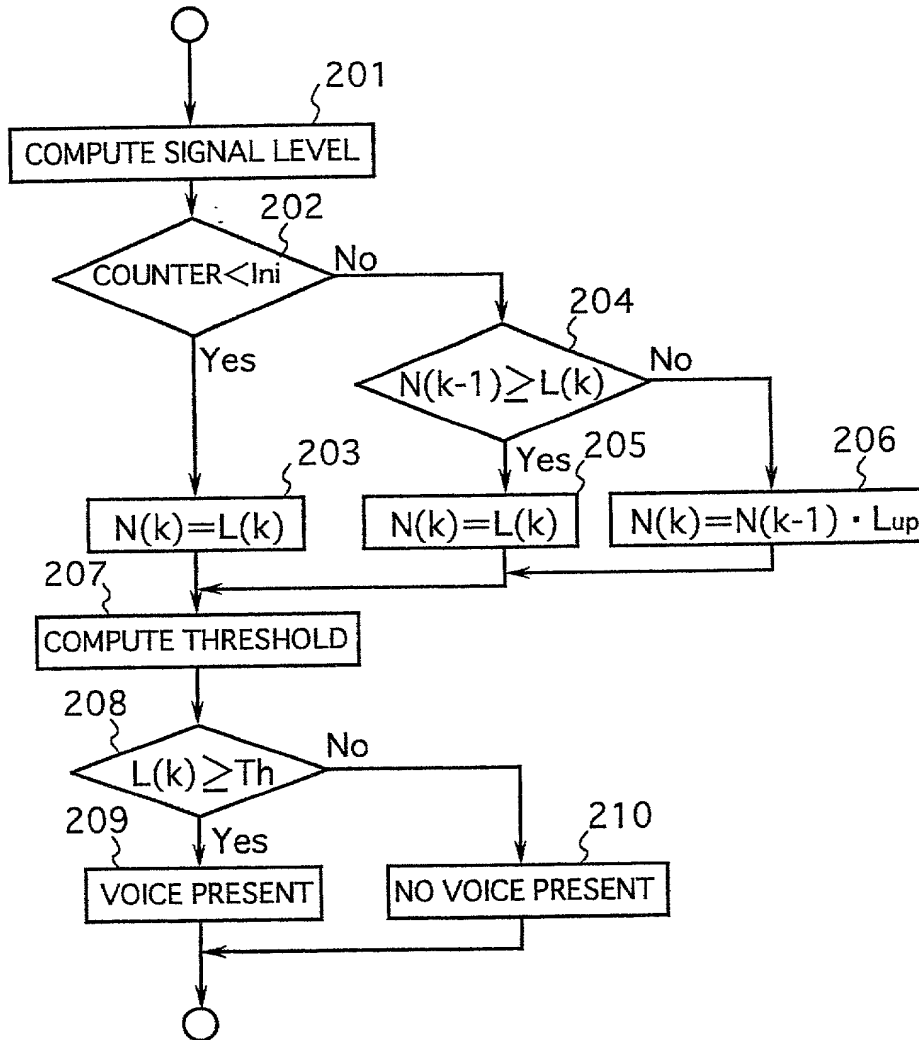


FIG.2



$L(k)$: Input signal level
 $N(k)$: Noise level estimate
 k : Sample No. or Frame No.
 L_{up} : Updating amount (≥ 1)
 Th : Threshold
 Ini : Noise level estimate initialization period

FIG.3

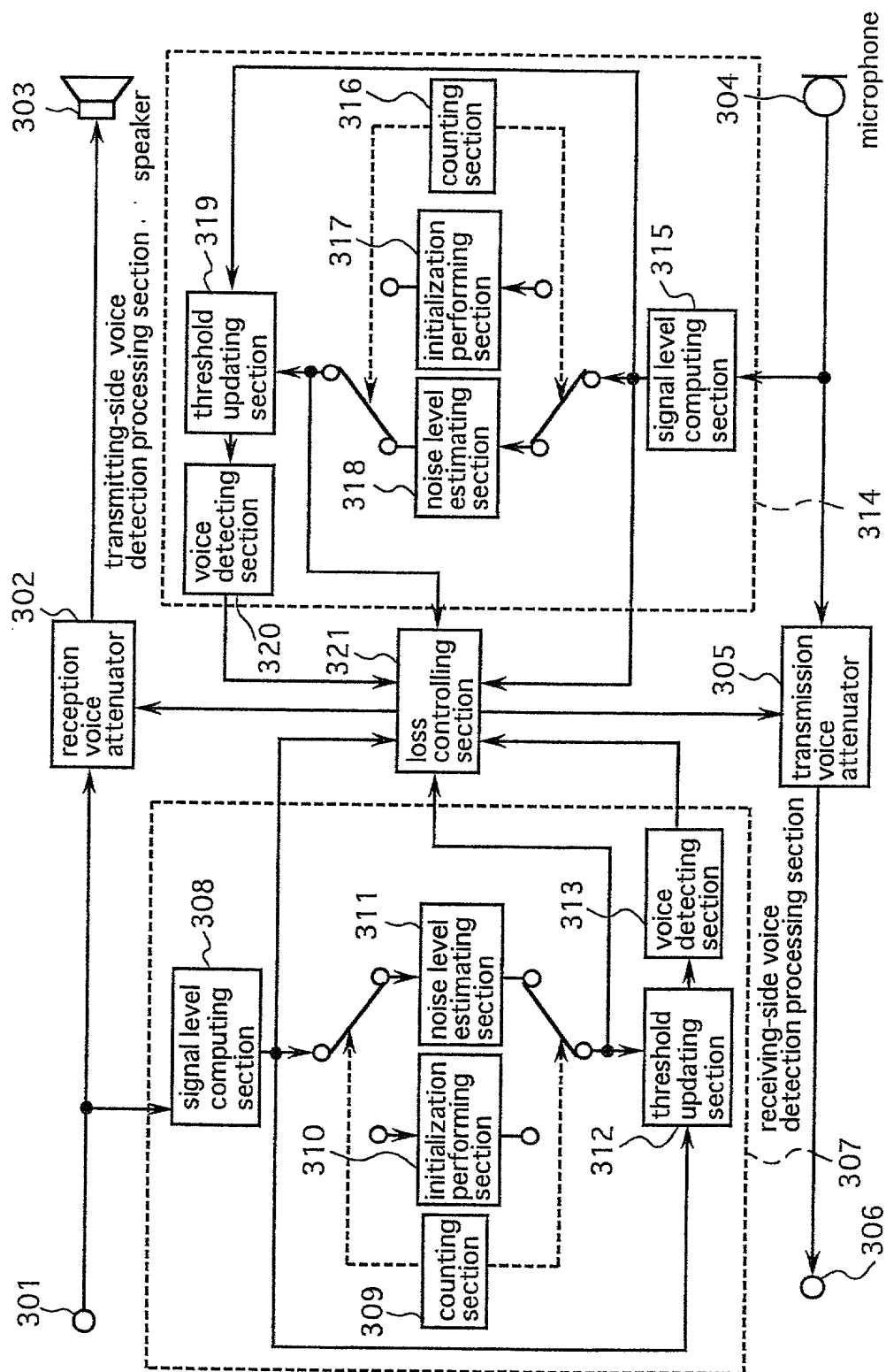
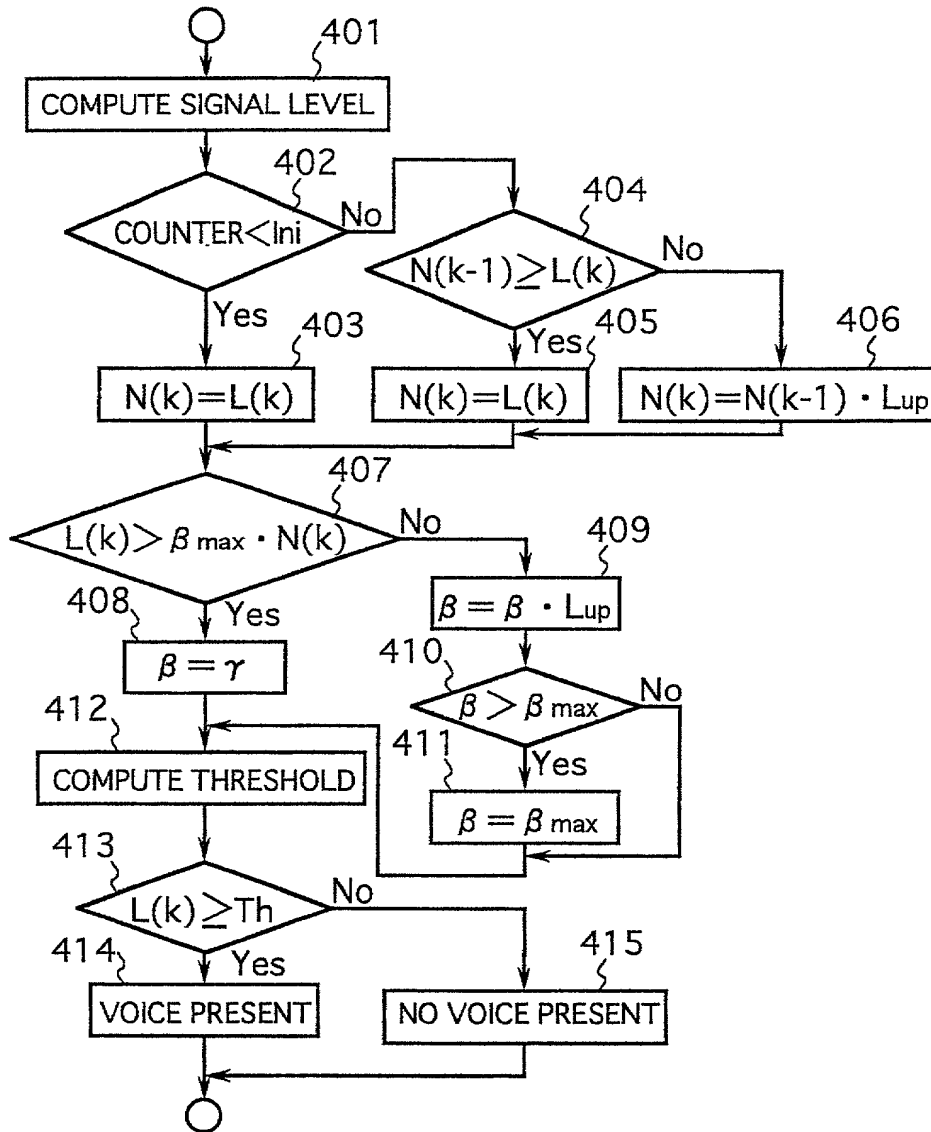


FIG.4



$L(k)$: Input signal level
 $N(k)$: Noise level estimate
 k : Sample No. or Frame No.
 L_{up} : Updating amount (≥ 1)
 Th : Threshold
 β : Judgment coefficient
 β_{max}, γ : Constant
 Ini : Noise level estimate initialization period

FIG. 5

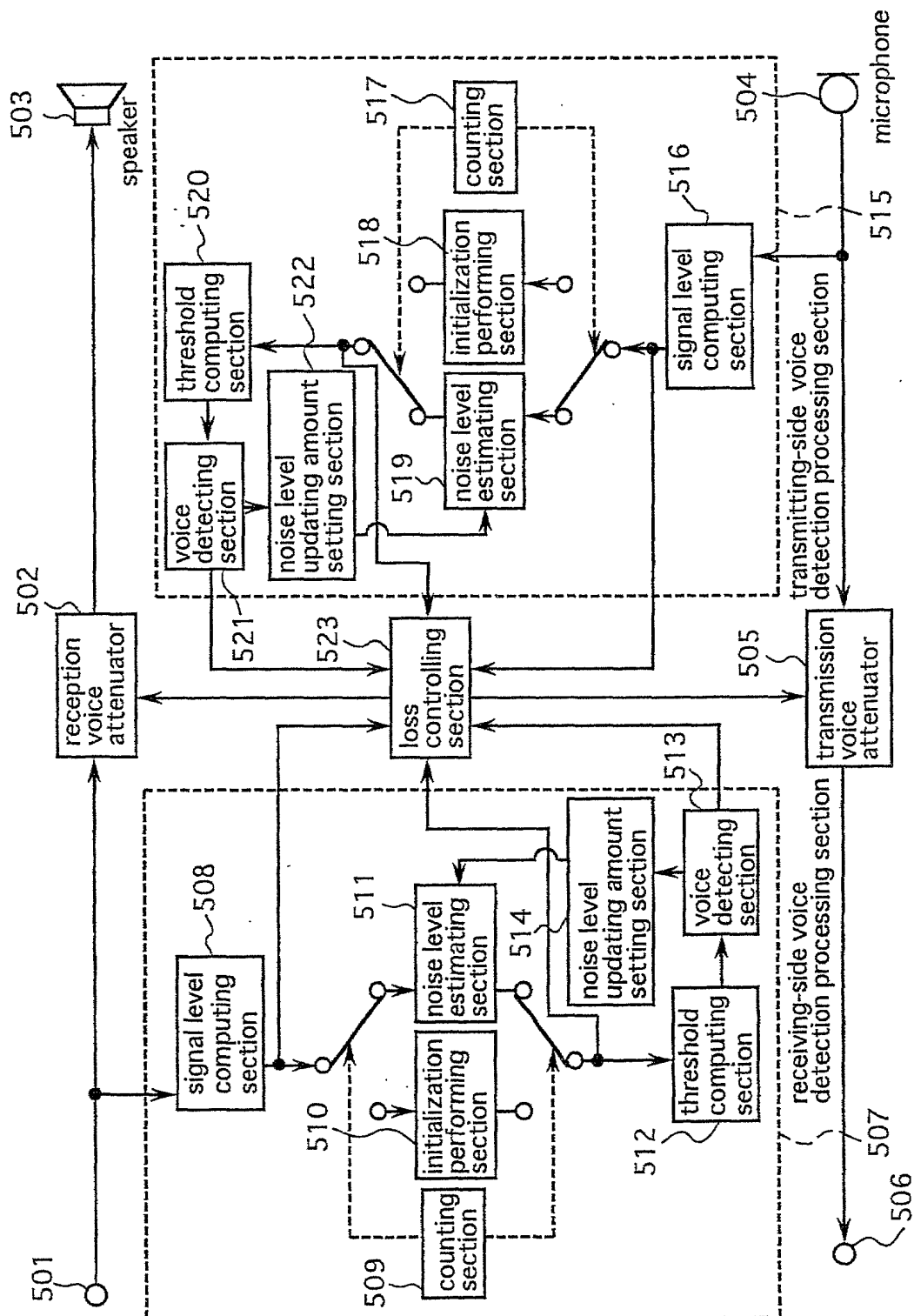
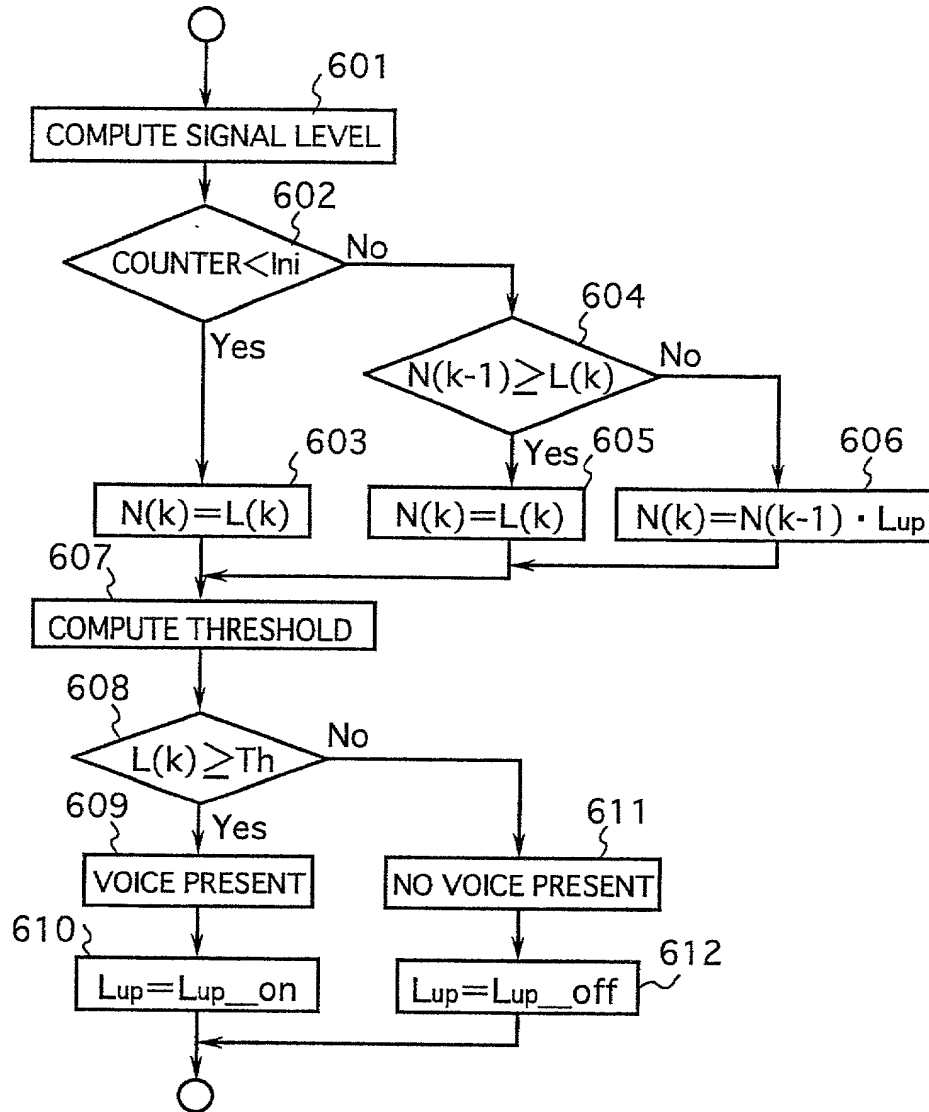


FIG.6



$L(k)$: Input signal level
 $N(k)$: Noise level estimate
 k : Sample No. or Frame No.
 Lup : Updating amount (≥ 1)
 Lup_on, Lup_off : Constant
 Th : Threshold
 Ini : Noise level estimate initialization period

FIG. 7

